

#2

OIKE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/867,947

DATE: 11/30/2001

TIME: 16:10:56

Input Set : N:\Crf3\RULE60\09867947.txt

Output Set: N:\CRF3\11212001\I867947.raw

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3 <110> APPLICANT: Kingsman, et al
5 <120> TITLE OF INVENTION: Retroviral Vectors
7 <130> FILE REFERENCE: 674523-2006
9 <140> CURRENT APPLICATION NUMBER: 09/867,947
10 <141> CURRENT FILING DATE: 2001-05-29
12 <150> PRIOR APPLICATION NUMBER: 09/238,356
13 <151> PRIOR FILING DATE: 1999-01-27
15 <160> NUMBER OF SEQ ID NOS: 64
17 <170> SOFTWARE: PatentIn version 3.0
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20 <211> LENGTH: 381
21 <212> TYPE: RNA
22 <213> ORGANISM: Equine infectious anemia virus
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29 caguuggcgc ccgaacaggg accugagggg gcgcagaccc uaccuguuga accuggcuga      180
31 ucguaggauccc cccgggacag cagaggagaa cuuacagaag ucuucuggag gugnuccugg      240
33 ggagaacaca ggaggacagg uaagauggga gacccuuuga cauggagcaa ggcgcucaag      300
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37 aagucuaggu agacuuuuu c                                     381
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43 <213> ORGANISM: Artificial Sequence
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46 <221> NAME/KEY: misc_feature
47 <222> LOCATION: (1)..(41)
48 <223> OTHER INFORMATION: sequence showing part of split polyA signal
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56 <211> LENGTH: 60
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence, primer
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63 <223> OTHER INFORMATION: sequence showing the part of split polyA signal
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72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <221> NAME/KEY: misc_feature

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77 <222> LOCATION: (1)..(63)
78 <223> OTHER INFORMATION: sequence showing both the parts of polyA signal
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82 aataaagggc aggtaagctc cacagggtgc cactccagtt ctgtgtgttg gttttttgtg      60
84 tgt                                                                    63
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88 <211> LENGTH: 50
89 <212> TYPE: DNA
90 <213> ORGANISM: Artificial Sequence
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93 <221> NAME/KEY: polyA_signal
94 <222> LOCATION: (1)..(50)
95 <223> OTHER INFORMATION: sequence of the polyA signal
98 <400> SEQUENCE: 5
99 aataaagggc aggtgtccac tccagttctg tgtgttggtt ttttgtgtgt      50
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103 <211> LENGTH: 33
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence, primer
107 <220> FEATURE:
108 <221> NAME/KEY: misc_feature
109 <222> LOCATION: (1)..(33)
110 <223> OTHER INFORMATION: primer
113 <400> SEQUENCE: 6
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118 <211> LENGTH: 57
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123 <221> NAME/KEY: misc_feature
124 <222> LOCATION: (1)..(57)
125 <223> OTHER INFORMATION: primer
128 <400> SEQUENCE: 7
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133 <211> LENGTH: 30
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135 <213> ORGANISM: Artificial Sequence, primer
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140 <223> OTHER INFORMATION: primer
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148 <211> LENGTH: 27
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence, primer

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170 <223> OTHER INFORMATION: primer
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184 <222> LOCATION: (1)..(53)
185 <223> OTHER INFORMATION: primer
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200 <223> OTHER INFORMATION: primer
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208 <211> LENGTH: 41
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210 <213> ORGANISM: Artificial Sequence,primer
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214 <222> LOCATION: (1)..(41)
215 <223> OTHER INFORMATION: primer
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222 <210> SEQ ID NO: 14
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225 <213> ORGANISM: Artificial Sequence
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230 <223> OTHER INFORMATION: plasmid
233 <300> PUBLICATION INFORMATION:
234 <308> DATABASE ACCESSION NO: AX003194
235 <309> DATABASE ENTRY DATE: 2000-08-24
236 <313> RELEVANT RESIDUES: (1)..(11299)
238 <400> SEQUENCE: 14
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241 atttttttaac caataggccg aaatcggtcaa aatcccttat aaatcaaaaag aatagaccga      120
243 gatagggttg agtggttggtc cagtttgtaa caagagtcca ctattaaaga acgtggactc      180
245 caacgtcaaa gggcgaaaaa ccgtctatca gggcgatggc ccactacgtg aaccatcacc      240
247 ctaatcaagt tttttggggt cgaggtgccc taaagcacta aatcggaacc ctaaagggag      300
249 cccccgattt agagcttgac ggggaaagcc aacctggcct atcgaaatta atacgactca      360
251 ctatagggag accggcagat ctgagtcctg tacataactt acggtaaatg gcccgcctgg      420
253 ctgaccgccc aacgaccccc gccattgac gtcaataatg acgtatgttc ccatagtaac      480
255 gccaataggg actttccatt gacgtcaatg ggtggagtat ttacggtaaa ctgcccactt      540
257 ggcagtacat caagtgtatc atatgccaa gacgccccct attgacgtca atgacggtaa      600
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261 catctacgta ttagtcatcg ctattaccat ggtgatgcgg ttttggcagt acatcaatgg      720
263 gcgtggatag cggtttgact cacggggatt tccaagtctc caccgccatt acgtcaatgg      780
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267 attgacgcaa atgggcggta ggcgtgtacg gtgggaggtc tatataagca gagctcgttt      900
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273 gtgattgact acccacgacg ggggtctttc atttctctag tttgtctgtt cgagatccta      1080
275 cagttggcgc ccgaacaggg acctgagagg ggcgcagacc ctacctgttg aacctggtg      1140
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303 aacgaccccc gccattgac gtcaataatg acgtatgttc ccatagtaac gccaataggg      1980
305 actttccatt gacgtcaatg ggtggagtat ttacggtaaa ctgcccactt ggcagtacat      2040
307 caagtgtatc atatgccaa gacgccccct attgacgtca atgacggtaa atggcccgcc      2100
309 tggcattatg ccagtagcat gaccttatgg gactttccta cttggcagta catctacgta      2160
311 ttagtcatcg ctattaccat ggtgatgcgg ttttggcagt acatcaatgg gcgtggatag      2220
313 cggtttgact cacggggatt tccaagtctc caccgccatt acgtcaatgg gagtttggtt      2280
315 tggcaccaaa atcaacggga ctttccaaaa tgtcgttaaca actccgcccc attgacgcaa      2340

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317	atggg	cggtg	ggcat	gtacg	gtggg	agggtc	tatata	agca	gagct	cgttt	agtga	accgt	2400
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321	tccag	cgctt	gcggc	cccaa	gcttc	agctg	ctcga	ggatc	tgcgg	atccg	gggaat	tccc	2520
323	cagtct	cagg	atccac	catg	gggat	ctccg	tcgtttt	taca	acgtc	gtgac	tgggaaa	acc	2580
325	ctggc	gttac	ccaact	taaat	cgctt	gcag	cacat	cccc	tttcg	ccagc	tggcg	taata	2640
327	gcgaag	aggc	ccgcac	cgat	cgccct	tccc	aacagt	tgcg	cagct	gaat	ggcga	atggc	2700
329	gctttg	cctg	gtttc	cgga	ccaga	agcgg	tgcgg	aaaag	ctggc	tggag	tgcgat	cttc	2760
331	ctgagg	ccga	tactgt	ctgc	gtccc	ctca	actgg	cagat	gcacg	gttac	gatgc	gcccc	2820
333	tctacac	caa	cgtaac	ctat	cccatt	acgg	tcaat	ccgcc	gtttg	ttccc	acggag	aatac	2880
335	cgacgg	gttg	ttact	gctc	acattt	aatg	ttgat	gaaa	ctggc	tacag	gaagg	ccaga	2940
337	cgcga	attat	ttttg	atggc	gttaac	tcgg	ctttc	atct	gtggt	gcaac	gggcg	ctggg	3000
339	tcggtt	acgg	ccagg	acagt	cgttt	gcct	ctgaat	ttga	cctga	gcgca	ttttt	acgcg	3060
341	ccggag	aaaa	ccgcct	cgcg	gtgat	ggtgc	tgcgtt	ggag	tgacg	gcagt	tatct	ggaag	3120
343	atcagg	atat	gtggc	ggatg	agcgg	cattt	tccgt	gacgt	ctcgtt	gctg	cataa	accga	3180
345	ctacaca	aat	cagcg	atttc	catgtt	gcga	ctcgt	tttaa	tgatg	atttc	agccg	cgctg	3240
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